

CLAIMS

1. A clutch coupling for the rollers of a roller conveyor, which is set between the means for transmission of motion (15, 50) of the actuating means for driving the conveyor and the shaft (8) of the rollers (6), characterized in that it is made up of a bushing element (20), which is provided with connection means (18, 51) for connection to the transmission means and is designed to rotate on and with respect to one end (22) of each shaft of the roller, by means of a pair of ball bearings (24, 25) fixed in said bushing, between a contrast (33) obtained on the end of the shaft and a spacer on which there acts an elastic element (38, 144) set on the bushing, the ball bearings (24, 25) being translatable on said end (22) so as to move towards one another in response to the action of thrust of the elastic element (38, 144), which is designed to act upon one of the races of each ball bearing.

2. The clutch coupling according to Claim 1, characterized in that the ball bearings (24, 25) are of the angular type and are set facing to one another in specular fashion.

3. The clutch coupling according to Claims 1 and 2, characterized in that set between the races of

each ball bearing that are not subject to the action of thrust of the elastic element (38, 144) is a spacer (30).

4. The clutch coupling according to Claim 1, characterized in that the elastic element is made up of Belleville springs controlled by a ring nut (42, 142) which can be screwed on said end (22) of the shaft (8).

5. The clutch coupling according to Claim 1, characterized in that the means for transmitting motion (15, 50) are coupled to the bushing (20) by means of a crown-wheel-and-pinion assembly.

6. The clutch coupling according to Claim 1, characterized in that the means for transmitting motion (15, 50) are coupled to the bushing (20) by means of a chain and a crown wheel.

7. The clutch coupling for the rollers of a roller conveyor, comprising actuating means provided with means for transmitting motion to the shaft (8) of the rollers (6), characterized in that said clutch coupling is set between the shaft (8) of the rollers (6) and one of the small rollers (110) of the rollers and is made up of a bushing element (140), which is provided with connection means in rotation ???about the shaft (8) and is designed to carry a pair of ball

bearings (124, 125), which are inserted between a contrast (141) made on the bushing element and an elastic element (144) and can be translated thereon so as to move towards one another in response to the action of said elastic element (144), which is designed to act upon one of the internal races of each ball bearing, the external races of said ball bearings, which are separated by a spacer, being fixed within one of the small rollers (110) of the roller (6).